No. 778,179. PATENTED DEC. 20, 1904.

H. EDELINE.

WHEEL RAISER.

APPLICATION FILED MAR. 2, 1904.

NO MODEL.

Fig. 1.

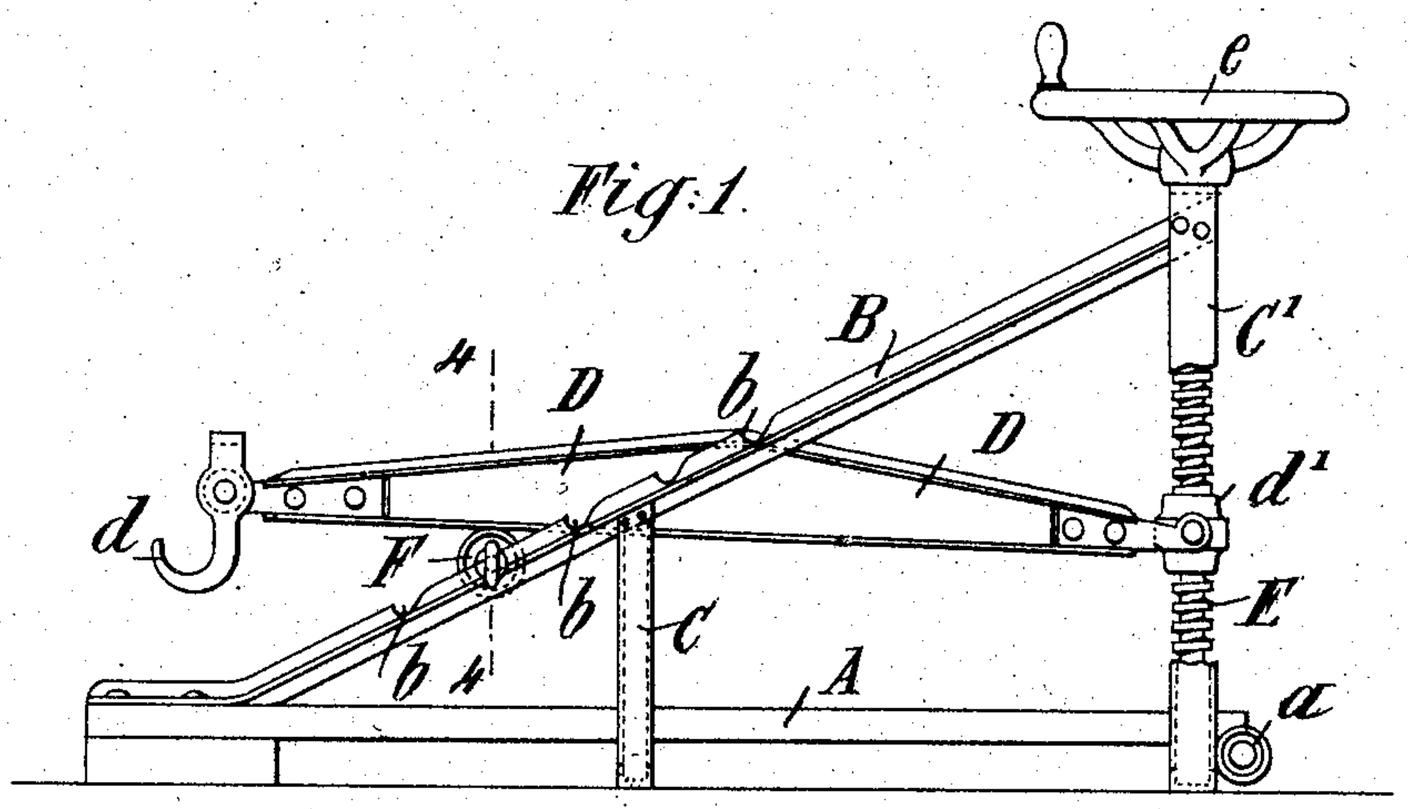


Fig. 2.

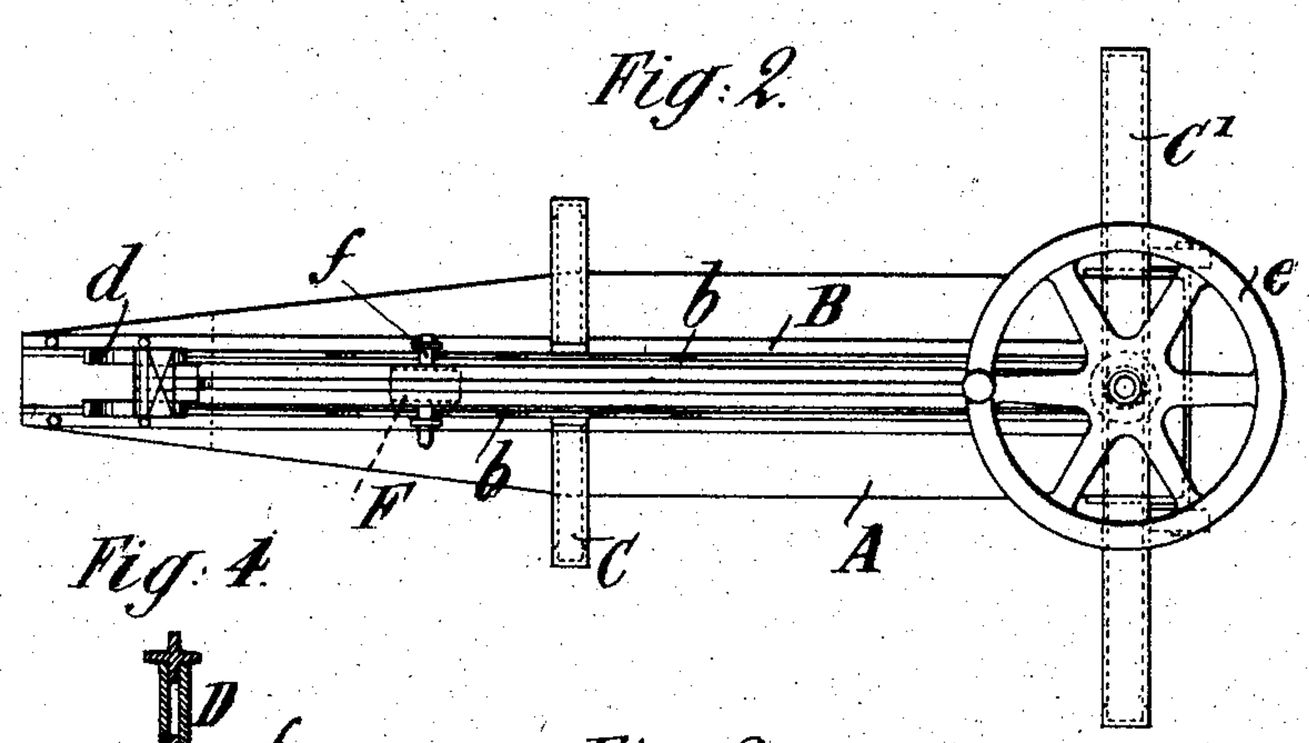


Fig. 4.

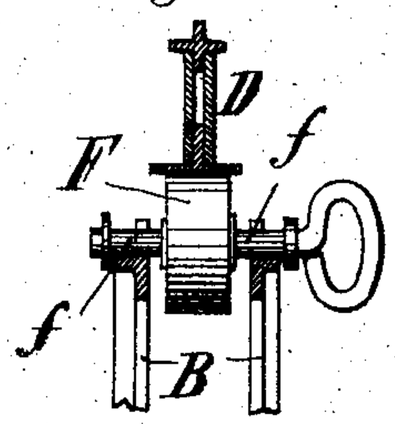
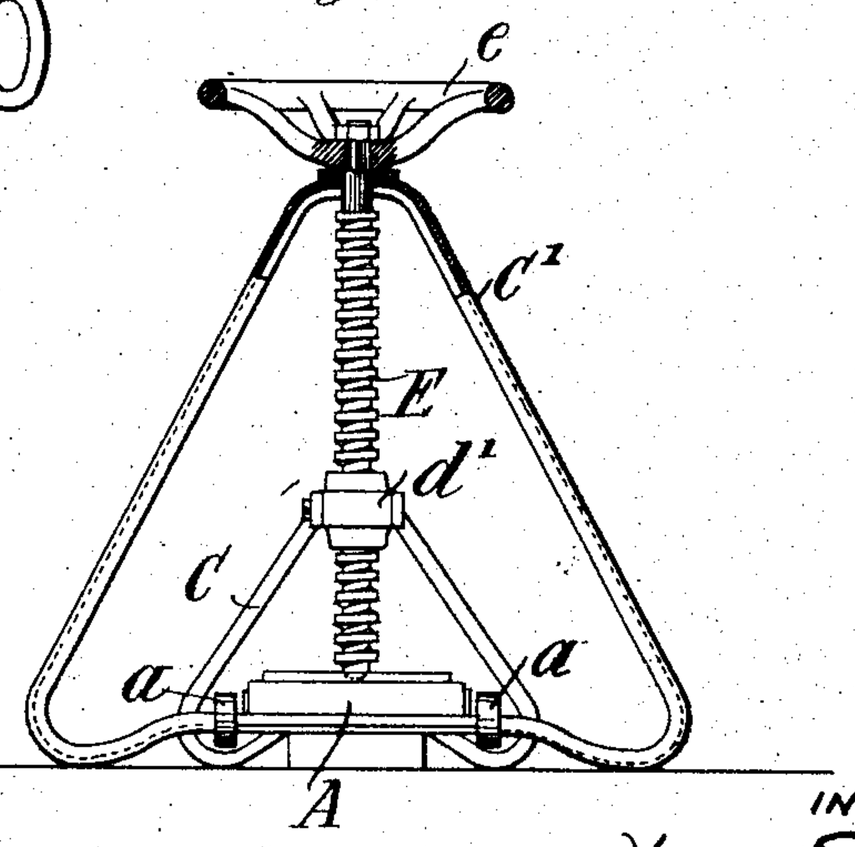


Fig. 3.



WITNESSES:

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No. 778,179. Patented December 20, 1904.

UNITED STATES PATENT OFFICE.

HENRI EDELINE, OF PARIS, FRANCE.

WHEEL-RAISER.

SPECIFICATION forming part of Letters Patent No. 778,179, dated December 20, 1904.

Application filed March 2, 1904. Serial No. 196,192.

To all whom it may concern:

Be it known that I, HENRI EDELINE, engineer, a citizen of the Republic of France, and a resident of 108 Rue de la Reunion, Paris, in the Republic of France, have invented a certain new and useful Raising Appliance called a "Wheel-Raiser," of which the following is a specification.

In the accompanying drawings, Figure 1 is a view in elevation of the appliance. Fig. 2 is a plan view. Fig. 3 is an end view, partly in section; and Fig. 4 is a detail view, on a larger scale, taken on the line 4 4 of Fig. 1.

This invention relates to an appliance for raising a horizontal bar—such, for instance, as the axle of a vehicle—in a rapid and convenient manner.

This appliance includes a frame consisting of a sole-plate A, resting on the ground, an inclined beam B, formed of two parallel bars having notches *b*, and of supports C C′ for the inclined beam, which is fixed to the sole-plate by one end. The two parallel bars forming the inclined beam form between them a slot in which passes a bar D, provided at one end with a hook *d*, which is intended to engage under the axle of the vehicle to be raised. This bar D is pivoted at its other end to a nut *d*′, which is mounted on a screw E, which turns in a step-bearing secured to the sole-plate A and also in a bearing in the support C′. This screw is provided with a hand-wheel *e*, by which it may be turned. The bar D rests on a roller F, mounted on a pivot-pin *f*, which is placed in one or other of the notches of the inclined beam B, as shown very clearly at Fig. 4.

To work this appliance, the position of the bar D is first approximately regulated by inserting the pivot-pin in a suitable notch of the beam B, and then by turning the wheel *e* the screw is rotated and causes the nut *d*′ to descend to tip the bar D and bring the hook *d* into contact with the axle, which as the movement continues will be raised thereby.

The arrangement of this appliance permits of the axle being conveniently reached notwithstanding any inconvenient position it may be in, as the appliance remains for the most part outside the vehicle, either in front or behind, as the case may be, and the bar D is inserted below the vehicle. The sole-plate can be provided with rollers or wheels *a*, which when the appliance is tipped up onto them will serve for conveniently moving the same.

The invention, it will be understood, is not to be limited strictly to the details of construction shown, as many modifications may obviously be introduced without changing the general character of the appliance.

What I claim as my invention, and desire to secure by Letters Patent, is—

An appliance intended to raise a horizontal bar, such as a vehicle-axle, consisting essentially of a lever pivoted at one end to a nut mounted on a vertical screw which can be turned and having at its other end a hook adapted to engage with the bar to be raised, the said lever resting at a point in its length on a roller supported by a fixed inclined beam and which can be moved along the beam, as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRI EDELINE.

Witnesses:

GUSTAVE DUMONT,

HANSON C. COXE.